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DATE MAILED: 12/16/2004

FILING DATE FIRST NAMED INVENTOR APPLICATION NO. ATTORNEY DOCKET NO. CONFIRMATION NO. 10/31/2001 10/000,379 Lalit K. Mestha D/A1097 XER 2 0437 9053 12/16/2004 **EXAMINER** Patrick R. Roche KOCH, GEORGE R Fay, Sharpe, Fagan, Minnich & McKee, LLP ART UNIT PAPER NUMBER 7th Floor 1100 Superior Avenue 1734 Cleveland, OH 44114-2518

Please find below and/or attached an Office communication concerning this application or proceeding.

PTOL-326 (Re	4.6.0	ction Summary	Part of Paper No./Mail Date 20041	1213
2) Notice Notice Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	
	 Certified copies of the priority document Copies of the certified copies of the priority application from the International Bureate the attached detailed Office action for a list 	ts have been received in A prity documents have been u (PCT Rule 17.2(a)).	received in this National Stage	
a)[Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documen		§ 119(a)-(d) or (f).	
	nder 35 U.S.C. § 119			
10) ☐ 1 11) ☐ 1	The specification is objected to by the Examir The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	1(d).
1	on Papers			
1	Claim(s) are subject to restriction and	or election requirement.		
II.	Claim(s) <u>1-5</u> is/are rejected. Claim(s) is/are objected to.		•	
5)	Claim(s) is/are allowed.			
	4a) Of the above claim(s) <u>6-19</u> is/are withdraw			
	Claim(s) <u>1-19</u> is/are pending in the application	un		
Dispositi	on of Claims	= A parto Quayro, 1000 G.	D. 11, 400 O.O. 210.	
"	closed in accordance with the practice under	rance except for formal ma · Ex parte Quavle 1935 C	itters, prosecution as to the merit	ts is
2a)☐ 3)☐	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
	Responsive to communication(s) filed on <u>01</u>			
Status				
- Exte after - If the - If NO - Faill Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may eply within the statutory minimum of the dwill apply and will expire SIX (6) Minute. Cause the application to be seen	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communic	cation.
Period fo	or Reply			
	The MAILING DATE of this communication a	George R. Koch III	1734	
	Office Action Summary	Examiner	Art Unit	
	Office Action Co.	10/000,379	MESTHA ET AL.	A
		Application No.	Applicant(s)	

Application/Control Number: 10/000,379

Art Unit: 1734

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Enomoto (US 6,801,334 B1)

Enomoto discloses a method of processing transient errors (such as printer drift - see page 334) produced in a color measurement system monitoring a color producing process, comprising 1) implementing a model of the color producing process (steps 200, 202, 204, 208) 2) monitoring an input to the color producing process (212) 3) predicting an expected color signal based on the model and monitored input (steps 224 and 226) measuring an output color (step 210), produced by the color producing process to produce a measured color signal, 5) comparing the measured color signal to the expected color signal to produce a color error value (steps 214, 216, 218 and 220) and selectively replacing the measured color signal based on the color error (step 230).

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As to claim 2, Enomoto discloses replacing the measured color signal with a predicted color signal based on the expected color signal step 230).

As to claim 3, Enomoto discloses storing the modifications (see step 232).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 4 and 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Enomoto as applied to claims 1 and 5 above, and further in view of Balasubramanian-1996 (the second NPL IDS document) and Stokes (US Patent 5,612,902).

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Enomoto does not disclose the models used or historical data. However, one would appreciate that any well known model can be utilized.

Balasubramanian discloses that models can be used, and specifies a Neugebauer model as a well-known model that can be used. Stokes discloses various printer models that can function as approximations of a printer device. Stokes discloses that an empirical model can be used, i.e., an on-line statistical parameterized model, and discloses that this model is used to create customized compensation values (see column 2, lines 4-21). One in the art would appreciate that such a model would be built on a large number of measurements and would thus provide optimal accuracy, at a trade off which is increased complexity. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such an empirical model in order to achieve optimal accuracy.

Stokes also discloses a Viggiano analytical model (described in column 5, line 14 to column 5, line 51), i.e., a multidimensional numerical model (see claim 1, especially in column 9, lines 3-8, which claim this model as a multidimensional lookup table, i.e., a multidimensional numerical model) and discloses that this model allows for faster modeling of the printer functioning (this model requires five sample steps). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such model in order to achieve faster modeling of the printer function.

Response to Arguments

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- 6. Applicant's arguments filed 9/1/2004 have been fully considered but they are not persuasive.
- 7. The restriction requirement was made final in the previous office action.

 Group I and III are considered distinct. The apparatus of group III does not have to perform the method of group I.
- 8. Applicant's arguments, see remarks, filed 9/1/2004, with respect to the rejection(s)of claim(s) 1, 2, and 5 under Balasubramanian have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Enomoto.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George R. Koch III Patent Examiner Art Unit 1734

GRK 12/13/2004